SUB CARRIER ASSIGNMENT METHOD FOR WIRELESS COMMUNICATION SYSTEM

Publication number: JP2001238269 (A)

Publication date: 2001-08-31

Inventor(s): SUZUKI TOSHINORI +

Applicant(s): KDDI CORP + (KDDI CORP)

Classification:

– international: *H04J1/02; H04B7/26; H04J3/00; H04J11/00; H04J13/00; H04Q7/36; H04Q7/38;* H04Q7/22; H04J1/00; H04B7/26; H04J3/00; H04J11/00; H04J13/00; H04Q7/36; H04Q7/38; H04Q7/22; (IPC1-7): H04Q7/38; H04B7/26; H04J1/02; H04J3/00; H04J11/00; H04J13/00; H04L12/28; H04Q7/36

– European: H04Q7/38C2D

Application number: JP20000049344 20000225

Priority number(s): JP20000049344 20000225

Also published as:

JP3826653 (B2)
US2001024427 (A1)
US6836484 (B2)

Abstract of **JP 2001238269 (A)**

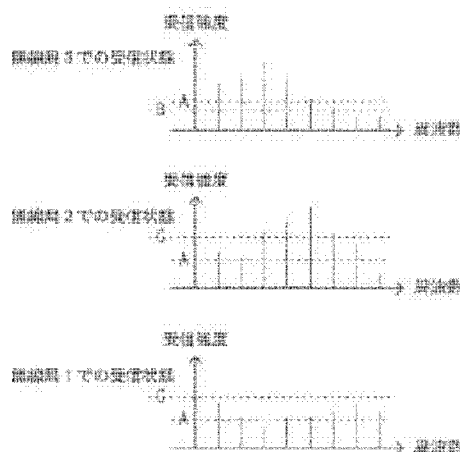PROBLEM TO BE SOLVED: To provide a subcarrier assignment method for a wireless communication system by which a subcarrier providing a deteriorated reception state causing degradation in the transmission efficiency to a concerned wireless station cannot be assigned thereto. SOLUTION: The method of this invention comprises a 1st step where a base station transmits reference signals consisting of subcarriers with an equal level to wireless stations at the same time, a 2nd step where the wireless stations inform the base station about the reception state by the subcarrier of each reference signal, and a 3rd step where the base station makes communications with destination wireless stations by means of packets in the transmission sequence depending on the reception state of each subcarrier.; In the 2nd step, a 1st threshold A with respect to the reception strength is set, and a binary bit is used to express the reception state having the reception strength of the threshold A or over and having the reception strength smaller than the threshold A.